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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/682,519	09/13/2001	Yu Wang	040489-0177 2614	
SUITE 500	DLEY AND LARDNER LLP JITE 500		EXAMINER ROJAS, BERNARD	
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
	,		2832	
			MAIL DATE	DELIVERY MODE
	•		05/15/2007	PAPER

· Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
·	09/682,519	WANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Bernard Rojas	2832				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 09/19	Responsive to communication(s) filed on <u>09/19/2006</u> .					
, <u> </u>	, 					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) <u>1-3,7,9,11,14-16,19,39 and 40</u> is/are)⊠ Claim(s) <u>1-3,7,9,11,14-16,19,39 and 40</u> is/are pending in the application.					
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
	Claim(s) <u>1-3,7,9,11,14-16,19,39 and 40</u> is/are rejected.					
•	☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement.					
o) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
 Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
see the attached detailed embedded in a factor the certified depice not received.						
•						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)				

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DETAILED ACTION

Response to Arguments

Applicant's arguments, filed 9/19/2006, with respect to the rejection(s) of claim(s) 1-22, 39 and 40 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made with van Oort [US 5,923,235] in view of Hsieh [US 5,016,638].

Applicant states that there is no motivation to combine van Oort and Hsieh to create a clam-shell style open MRI that is mounted on a vibration isolation system. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the vibration isolation system of Hsieh with the MRI of van Oort in order to isolate a MRI from vibrations in the structure in order to reduce scanner image degradation [abs, Hsieh].

Applicant relies on Hsieh col. 8 lines 25-32

also states that Hsieh teaches away from using a clam-shell type superconductive MRI system on the disclosed vibration isolation system, and that is a superconductive magnet system is used, it should be a closed MRI of the type disclosed in US 4,766,378 to Danby

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 7, 9, 11, 14, 19 and 39-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over van Oort [US 5,923,235] in view of Hsieh [US 5,016,638].

Claim 1, van Oort discloses an open MRI system comprising an open MRI magnet system, wherein the MRI magnet system comprises a clam-shell MRI magnet system [figure 1].

van Oort fails to teach the use of a vibration isolation system adapted to support the MRI.

Hsieh teaches a medical imaging device [10] located a on a vibration isolation system [74] mounted in the structure [72] of a building [col. 7 lines 20-25].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the vibration isolation system of Hsieh with the MRI of van Oort in order to isolate a MRI from vibrations in the structure in order to reduce scanner image degradation [abs].

Claims 7 and 19, van Oort as modified by Hsieh discloses an MRI system, wherein the vibration isolation system is secured to a floor [72] and the MRI magnet system is attached over the vibration isolation system [figure 2].

Claim 9, van Oort as modified by Hsieh discloses the MRI system of claim 1, further comprising a structural holder [18] positioned between the vibration isolation system and the MRI magnet system [figures 2, 3 and 5].

Claim 11, van Oort as modified by Hsieh discloses the MRI system of claim 10, wherein the vibration isolation system is mounted on posts [74] such that MRI magnet

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system supports do not contact a floor of a site where the MRI magnet system is located [figures 2 and 3].

Claim 14, van Oort discloses an open magnet assembly with a floor mount comprising:

- a first assembly mounted about a first longitudinally-extending and generally-vertically-aligned axis including'.
 - at least one superconducting main coil (26) positioned around the axis; and
 - a vacuum enclosure (24) enclosing the at least one superconductive main coil;
- a second assembly mounted about a second longitudinally-extending and generally-vertically-aligned axis coaxially aligned with the first axis and spaced longitudinally apart from and disposed below the first assembly, the second assembly including:
 - at least one superconducting main coil (30) positioned around the axis; and
- a vacuum enclosure (28) enclosing the at least one superconductive main coil;
- at least one support beam (32) external to the first and second vacuum enclosures having a first end attached to the first assembly and a second end attached to the second assembly.

Claim 39, van Oort discloses the open MRI system of claim 1, wherein the open clam-shell MRI magnet system comprises a vertically aligned MRI magnet system [figure 1].

Claim 40, van Oort discloses the open MRI system of claim 39, wherein the vertically- aligned, open clam-shell MRI magnet system comprises: a first magnet assembly containing a first superconductive coil [24]; a second magnet assembly containing a second superconductive coil [30]; and only two support members [32] supporting the second magnet assembly over the first magnet assembly, wherein the two support members are not diametrically aligned to a diameter line of the first and the second magnet assemblies [figure 1].

Claims 2, 3, 15, and 16 are rejected under 35 U.S.C. 103la) as being unpatentable over van Oort [US 5,923,235] in view of Hsieh [US 5,016,638], as applied to claims 1, 7-11, 14, 19-21 and 39-40 above, and further in view of Ohsaki [US 6,202,492].

van Oort in view of Hsieh discloses the instant claimed invention except for the isolators being adjustable and actively pneumatically controlled.

Ohsaki discloses a surface [6] being supported by adjustable actively controlled pneumatic isolators [4a-d, column 5, lines 1-12].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to the isolator design of Ohsaki for the isolators of Whittaker et al. in view of van Oort for the purpose of accommodating variations in the operating environment.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Bernard Rojas whose telephone number is (571) 272-

1998. The examiner can normally be reached on M and W-F, 5:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Bend Ky

SUPERVISORY PATENT EXAMINER

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